

WHAT IS CLAIMED IS:

1. An information reading unit comprising:
a light emitting section which irradiates a light on an object; and
5 a light receiving section which converts a light reflected from the object into an electric signal,
wherein at least a part of the light receiving section has a light transmitting property, and the light receiving section and the light emitting section are laminated.
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2. An information reading unit as claimed in claim 1, wherein the light receiving section and the light emitting section are provided on the same optical axis.
- 15 3. The information reading unit according to claim 1, wherein the light receiving section comprises an organic photoelectric converting unit having a photoelectric charge generating region formed by at least one type of electron donating organic material and electron accepting material between
20 electrodes.
4. The information reading unit according to claim 3, wherein the photoelectric charge generating region at where the electron donating organic material and the electron accepting
25 material are mixed.

5. The information reading unit according to claim 3,
wherein the electron accepting material contains at least one
of fullerenes and carbon nano tubes.

5 6. The information reading unit according to claim 1,
wherein the light receiving section is formed by a
photoconductive unit interposing at least one type of
photoconductive material between electrodes.

10 7. The information reading unit according to claim 1,
wherein the light emitting section and the light receiving
section are laminated on the same substrate.

8. The information reading unit according to claim 1,
15 wherein a light transmitting electric insulating material is
provided between the light emitting section and the light
receiving section which are laminated on the same substrate.

9. The information reading unit according to claim 1,
20 wherein the light emitting section and the light receiving
section are provided on both sides of a substrate.

10. The information reading unit according to claim 1,
wherein a plurality of light receiving sections is provided in
25 a matrix.

11. The information reading unit according to claim 1,
wherein a plurality of light receiving sections is provided in
a matrix and takes a simple matrix structure having a data line
5 and a scanning line.

12. The information reading unit according to claim 1,
wherein a plurality of light receiving sections is provided in
a matrix and takes an active matrix structure having a separate
10 data transmission system.

13. The information reading unit according to claim 1,
wherein a plurality of light emitting sections is provided in
a matrix.

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14. The information reading unit according to claim 1,
wherein a plurality of light emitting sections is provided in
a matrix and takes a simple matrix structure having a data line
and a scanning line.

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15. The information reading unit according to claim 1,
wherein a plurality of light emitting sections is provided in
a matrix and takes an active matrix structure having a separate
data transmission system.

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16. The information reading unit according to claim 1,
wherein the light emitting section for irradiating a light on
an object is a planar light source.

5 17. The information reading unit according to claim 1,
wherein the light emitting section for irradiating a light on
an object is an organic electroluminescence unit.

18. The information reading unit according to claim 1,
10 wherein a light emitted from the light emitting section has a
directivity.

19. An information reading unit comprising:
a light emitting section which irradiates a light on an
15 object; and

a light receiving section for converting a light reflected
from the object into an electric signal,

wherein at least a part of the light emitting section and
the light receiving section has a light transmitting property,
20 the light receiving section and the light emitting section
are laminated, and

a light emitted from the light emitting section is received
by a plurality of light receiving sections.

25 20. The information reading unit according to claim 19,

wherein at least one of the light receiving sections is shielded by a light shielding section, thereby preventing irradiation of a reflected light.

5 21. The information reading unit according to claim 19, wherein the light emitting section and the light receiving sections are provided on the same optical axis.

 22. The information reading unit according to claim 19, wherein the light emitting section is interposed between the
10 light receiving sections.

 23. The information reading unit according to claim 1, wherein the light receiving section has a polarizing absorption property.

15 24. The information reading unit according to claim 1, wherein the light emitting section has a polarizing light emitting property and the light receiving section has a polarizing absorption property.

20 25. The information reading unit according to claim 1, wherein a polarizing plane for a light having the highest intensity which is incident from the light emitting section onto the light receiving section directly or through a polarizer is
25 different from a polarizing plane for a light which can be absorbed

by the light receiving section most greatly.

26 An information reading unit comprising:

a light emitting section which irradiates a light on an
5 object; and

a light receiving section which converts a light reflected
from the object into an electric signal,

wherein at least a part of the light emitting section has
a light transmitting property and the light receiving section
10 and the light emitting section are laminated.

27. An information reading unit comprising:

a light emitting section which irradiates a light on an
object; and

15 a light receiving section which converts a light reflected
from the object into an electric signal,

wherein at least one of the light receiving section and
the light emitting section has a light transmitting property
and the light receiving section and the light emitting section
20 are laminated.

28. An information reading device wherein electric
information obtained by the light receiving section is converted
into a digital signal by using the information reading unit
25 according to claim 1.